

Table 1.—Preliminary estimates of passage by brood-year (BY) and run for unmarked juvenile Chinook salmon and steelhead trout captured by rotary-screw traps at Red Bluff Diversion Dam (RK391), Sacramento River, CA, for the dates listed below. Results include estimated passage, peak river discharge volume, water temperature, turbidity, and fork length (mm) range in parentheses. A dash (-) indicates that sampling was not conducted on that date.

Date	Discharge volume (cfs) ¹	Water temperature (°C)	Water turbidity (NTU)	Estimated passage				
				BY11 Winter	BY11 Spring	BY10 Fall	BY11 Late-Fall	BY11 RBT
10/22/2011	7,720	12.9	4.1	10,280 (35 – 69)	6,067 (29 – 34)	0 (-)	201 (79 – 123)	41 (66)
10/23/2011	7,720	12.9	3.8	7,300 (36 – 69)	5,068 (29 – 35)	41 (134)	41 (72)	42 (73)
10/24/2011	7,700	12.7	3.9	4,586 (36 – 71)	4,862 (29 – 35)	79 (134 – 138)	118 (73 – 108)	79 (79 – 92)
10/25/2011	7,700	12.3	4.7	4,480 (36 – 68)	5,667 (29 – 35)	44 (132)	50 (79)	0 (-)
10/26/2011	7,680	11.6	4.0	7,512 (36 – 67)	2,718 (31 – 35)	85 (131 – 135)	297 (76 – 130)	43 (77)
10/27/2011	7,840	11.4	2.9	3,938 (37 – 72)	5,561 (28 – 36)	0 (-)	300 (74 – 126)	0 (-)
10/28/2011	7,800	11.3	4.3	6,343 (37 – 72)	7,034 (29 – 36)	0 (-)	259 (75 – 115)	43 (85)
10/29/2011	7,660	11.6	3.0	4,925 (37 – 73)	4,571 (30 – 36)	44 (134)	261 (75 – 109)	43 (73)
10/30/2011	7,660	12.2	2.6	3,583 (37 – 73)	2,145 (30 – 36)	0 (-)	259 (74 – 122)	37 (84)
10/31/2011	7,680	12.3	2.5	1,998 (38 – 72)	1,870 (31 – 37)	32 (138)	129 (78 – 129)	0 (-)
11/1/2011	7,660	11.6	2.7	3,228 (38 – 73)	1,630 (33 – 37)	0 (-)	163 (79 – 127)	0 (-)
11/2/2011	7,660	10.8	3.2	3,563 (38 – 75)	1,996 (32 – 37)	33 (147)	229 (76 – 131)	66 (79 – 85)
11/3/2011	7,660	10.6	2.9	3,304 (38 – 75)	2,185 (30 – 37)	0 (-)	136 (76 – 119)	0 (-)
11/4/2011	7,720	10.3	2.6	2,671 (39 – 74)	2,817 (30 – 38)	36 (148)	288 (77 – 118)	72 (72 – 79)
Biweekly Total²				67,711	54,191	394	2,731	466
<i>Biweekly Lower 90% Confidence Interval</i>				52,096	41,430	36	1,640	76
<i>Biweekly Upper 90% Confidence Interval</i>				83,326	66,952	752	3,822	856
Brood Year Total				672,809	73,812	8,410,987	87,088	55,146
<i>Brood year Lower 90% Confidence Interval</i>				485,530	56,548	4,781,939	15,713	22,876
<i>Brood year Upper 90% Confidence Interval</i>				860,087	91,076	12,040,036	158,463	87,417

¹ Peak daily discharge values do not account for diversions at RBDD and only represent peak flows registered at the Bend Bridge Gauging station (<http://cdec2.water.ca.gov/cgi-progs/queryFx?bnd>).

² Biweekly totals may be greater than the sum of the daily estimates presented in this table if sampling was not conducted on each day of the biweekly period. A dash (-) denotes those dates. To estimate daily passage for days that were not sampled, we impute missed sample days with the weekly mean value of days sampled within the week.

Juvenile Winter Chinook Salmon Estimated Passage

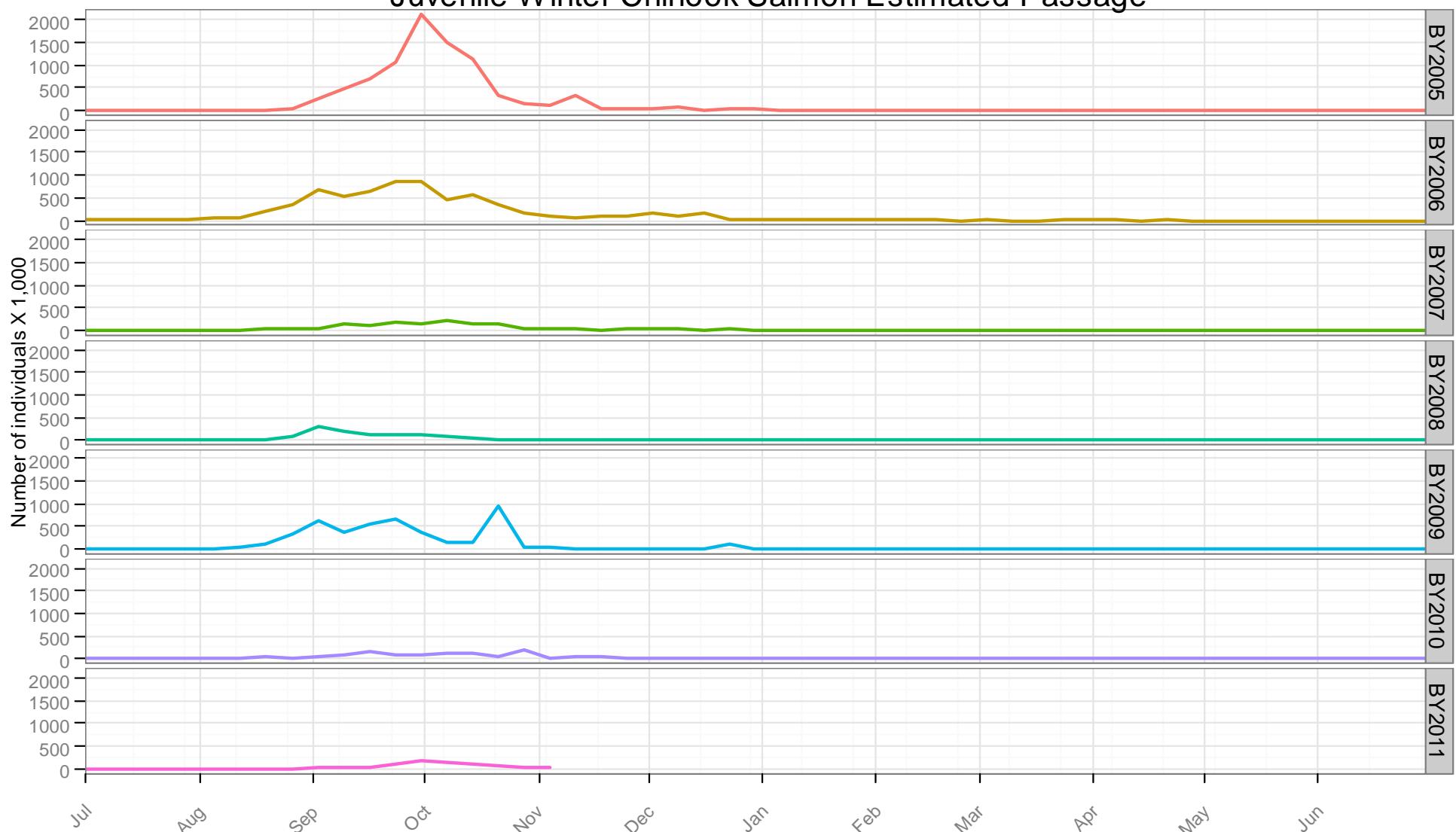


Figure 1. Weekly estimated passage of juvenile winter Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period July 1 2005 to present .

Juvenile Spring Chinook Salmon Estimated Passage

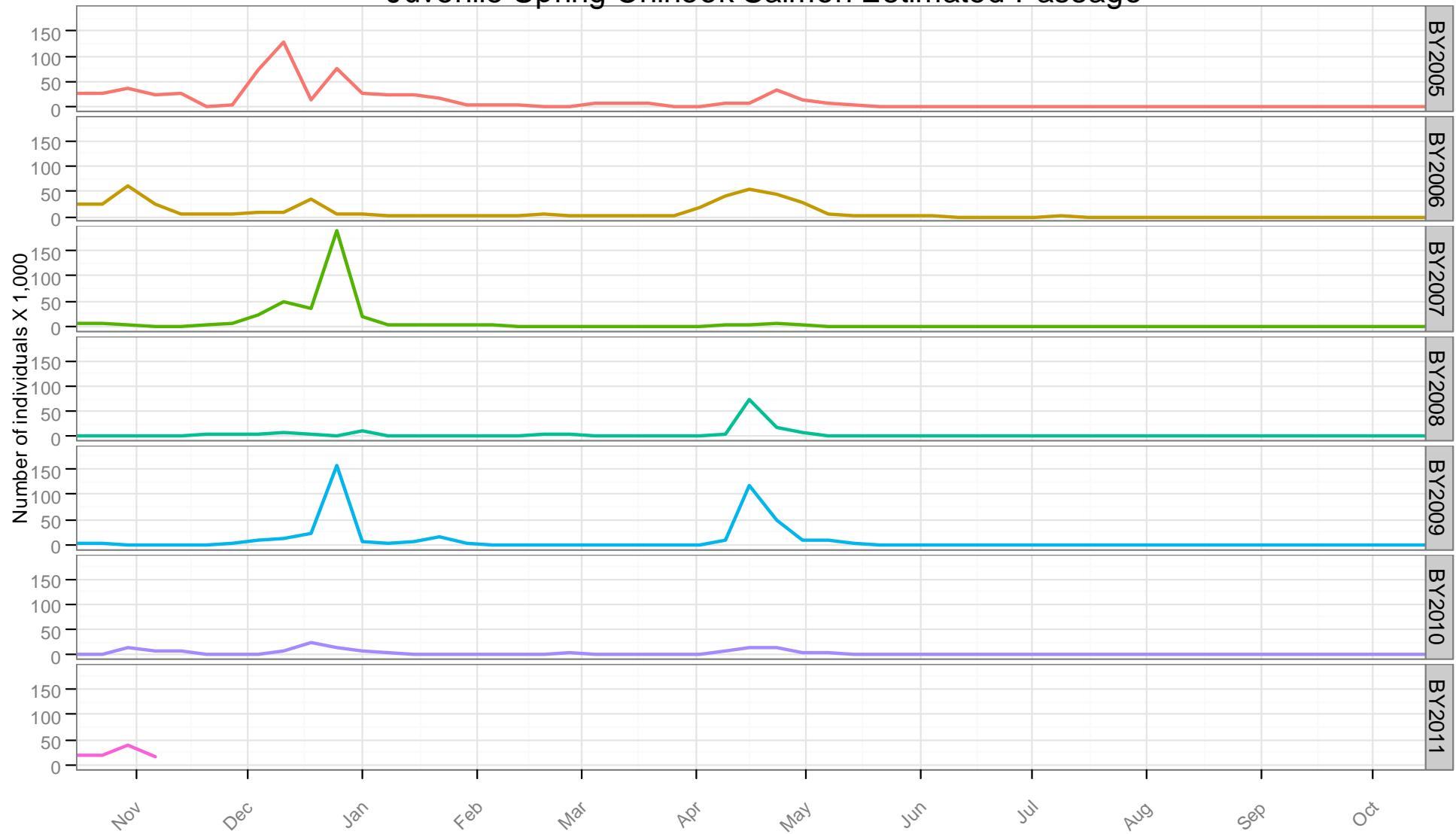


Figure 2. Weekly estimated passage of juvenile Spring Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period October 16 2005 to present .

Juvenile *Onchorhyncus mykiss* Estimated Passage

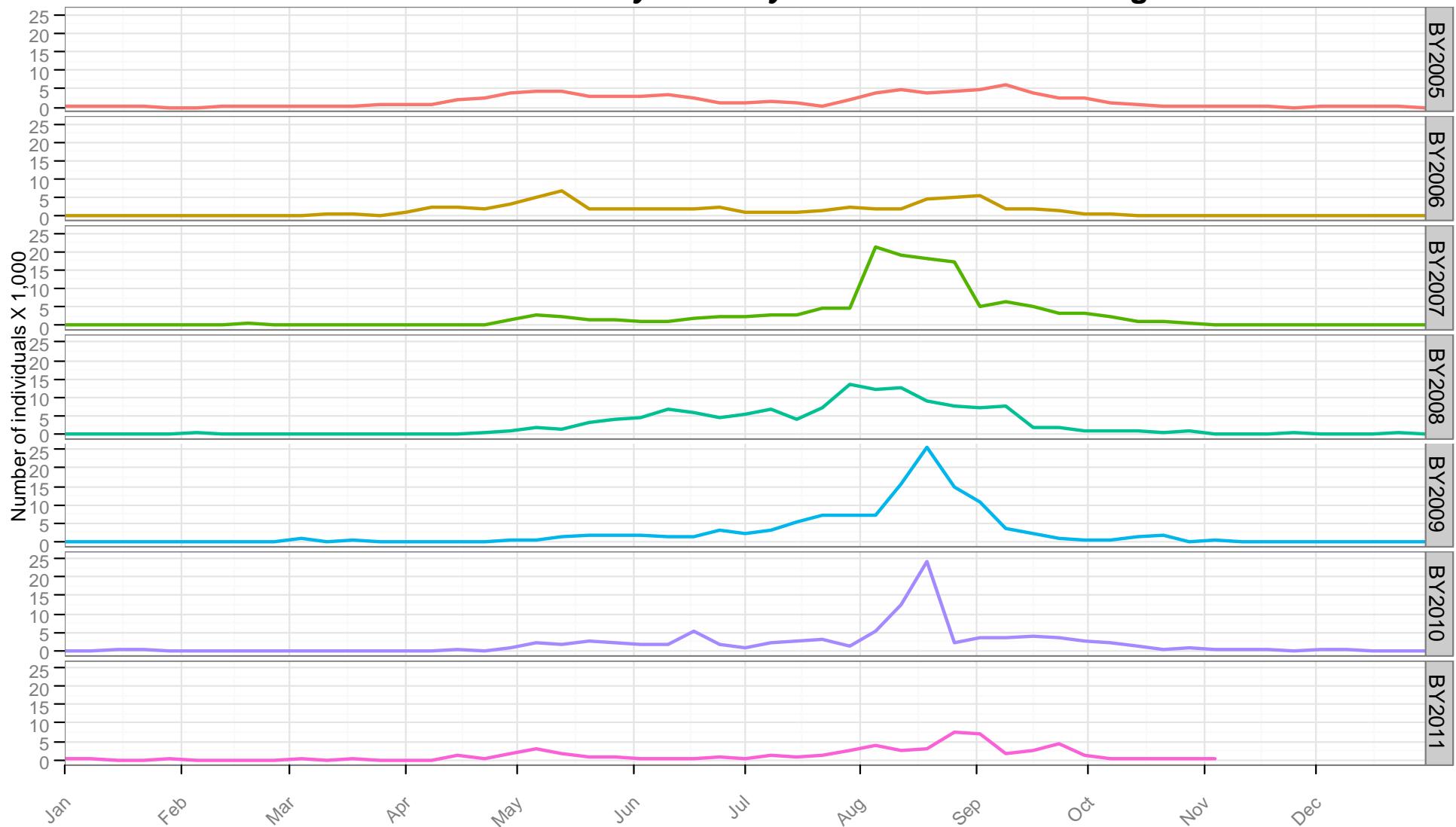


Figure 3. Weekly estimated passage of juvenile Rainbow/Steelhead trout at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period January 1 2005 to present .

Juvenile Fall Chinook Salmon Estimated Passage

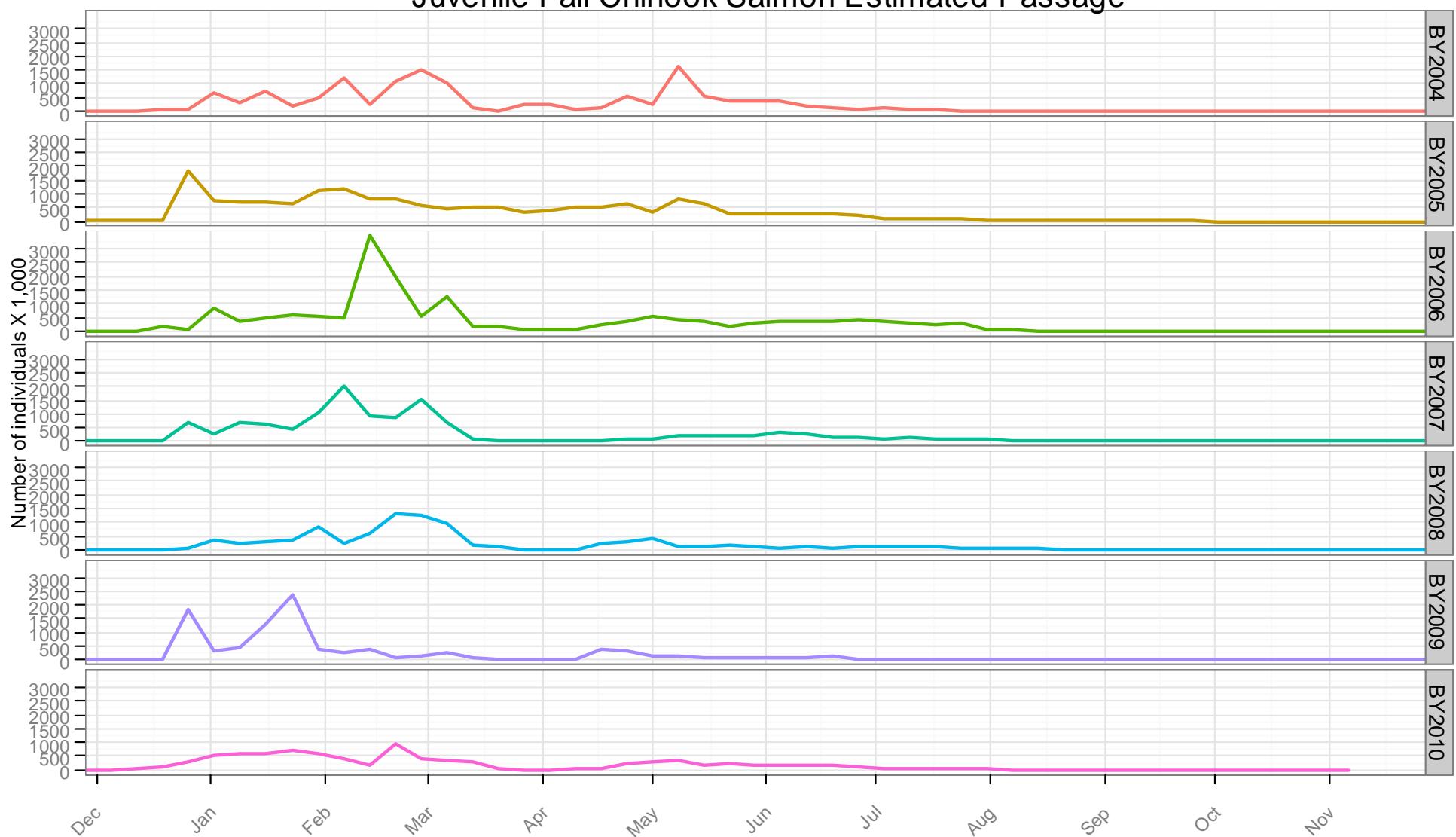


Figure 4. Weekly estimated passage of juvenile Fall Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period December 1 2004 to present .

Juvenile Late Fall Chinook Salmon Estimated Passage

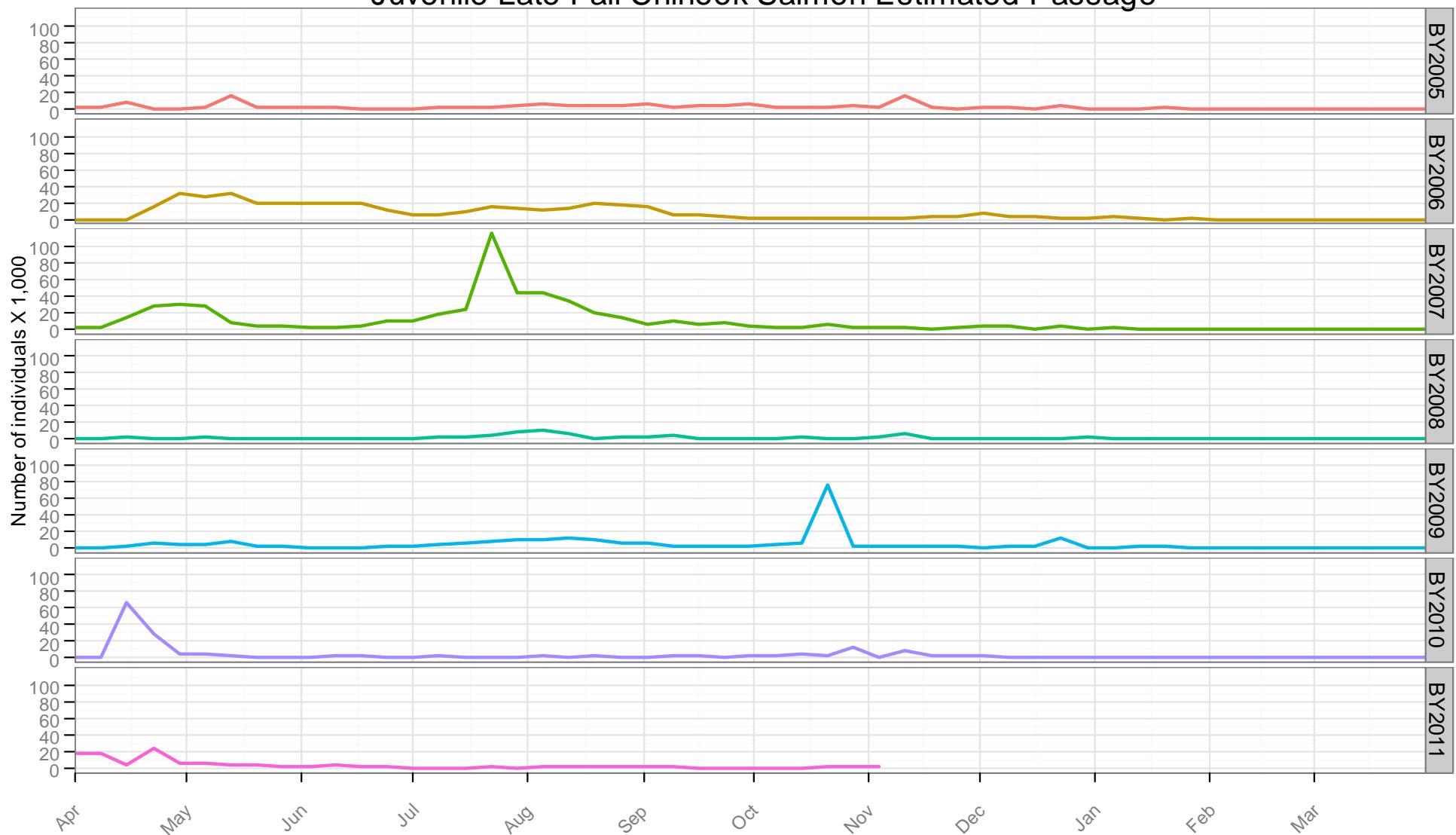


Figure 5. Weekly estimated passage of juvenile Late Fall Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period April 1 2005 to present.

Weekly Estimated Chinook Passage at Red Bluff Diversion Dam - All Runs Combined

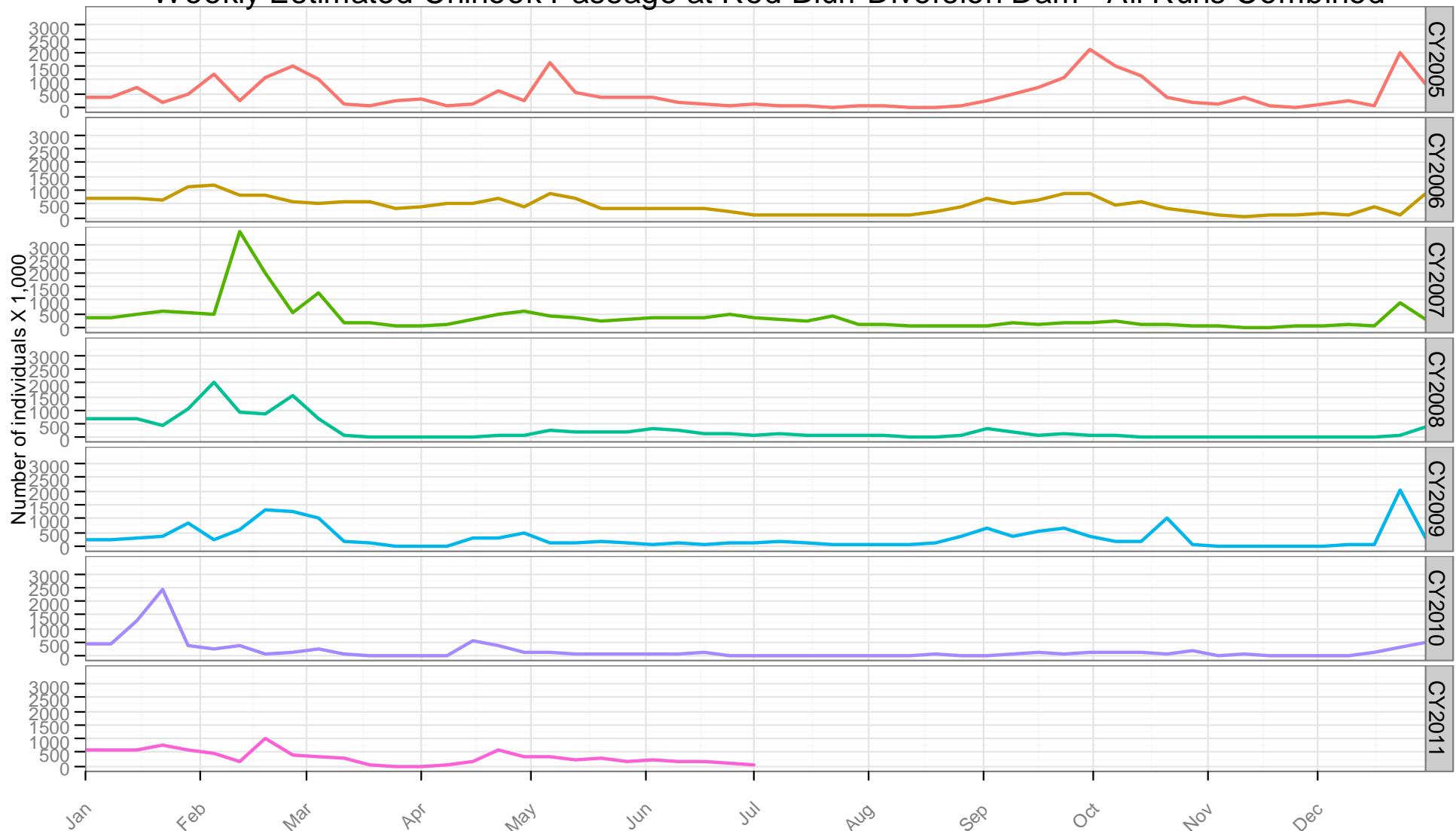


Figure 6. Weekly estimated passage of juvenile Chinook Salmon at Red Bluff Diversion Dam (RK391), by calendar year. Fish were sampled using rotary-screw traps for the period January 1 2005 to June 30 2011